RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number:	<u>09/6/9,3/0C</u>
Source:	IFW16
Date Processed by STIC:	3/8/05

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IFW16

RAW SEQUENCE LISTING DATE: 03/08/2005
PATENT APPLICATION: US/09/619,310C TIME: 10:36:33

Input Set : A:\2005-01-02 4614-0140PUS1.ST25.txt
Output Set: N:\CRF4\03082005\I619310C.raw

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3 <110> APPLICANT: THASTRUP, Ole
        TULLIN, Soren
4
         POULSEN, Lars K
5
        BJORN, Sara P
6
8 <120> TITLE OF INVENTION: NOVEL FLUORESCENT PROTEINS
10 <130> FILE REFERENCE: 4614-0140PUS1
12 <140> CURRENT APPLICATION NUMBER: US 09/619,310C
13 <141> CURRENT FILING DATE: 2000-07-19
15 <150> PRIOR APPLICATION NUMBER: US 08/819,612
16 <151> PRIOR FILING DATE: 1997-03-17
18 <150> PRIOR APPLICATION NUMBER: PCT/DK96/00051
19 <151> PRIOR FILING DATE: 1996-01-31
21 <150> PRIOR APPLICATION NUMBER: DK 1065/95
22 <151> PRIOR FILING DATE: 1995-09-22
25 <160> NUMBER OF SEQ ID NOS: 23
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35 <223> OTHER INFORMATION: GFP2 primer directed to A. victoria
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59 <223> OTHER INFORMATION: 5' PCR primer incorporating the Y66H substitution responsible
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for

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- 69 <211> LENGTH: 36 70 <212> TYPE: DNA 71 <213> ORGANISM: Artificial Sequence 73 <220> FEATURE: 74 <223> OTHER INFORMATION: 3' PCR primer incorporating the Y66H substitution responsible changing green fluorescence into blue fluorescence 77 <400> SEQUENCE: 4 36 78 aagaattcgg atccctttag tgtcaattgg aagtct 81 <210> SEQ ID NO: 5 82 <211> LENGTH: 30 83 <212> TYPE: DNA 84 <213> ORGANISM: Artificial Sequence 86 <220> FEATURE: 87 <223> OTHER INFORMATION: 5' primer used to flank the Y66H-GFP 89 <400> SEQUENCE: 5 30 90 aattggtacc aaggaggtaa gctttatgag 93 <210> SEQ ID NO: 6 94 <211> LENGTH: 30 95 <212> TYPE: DNA 96 <213> ORGANISM: Artificial Sequence 98 <220> FEATURE: 99 <223> OTHER INFORMATION: 3' primer used to flank the Y66H-GFP 101 <400> SEQUENCE: 6 30 102 ctttcgtttt gaattcggat ccctttagtg 105 <210> SEQ ID NO: 7 106 <211> LENGTH: 48 107 <212> TYPE: DNA 108 <213 > ORGANISM: Artificial Sequence 110 <220> FEATURE: 111 <223> OTHER INFORMATION: large Ncol-Xbal vector fragment and ligated to SEQ ID NO:8 113 <400> SEQUENCE: 7 114 catggccaac gcttgtcact actctctctt atggtgttca atgctttt 48 117 <210> SEQ ID NO: 8 118 <211> LENGTH: 48 119 <212> TYPE: DNA 120 <213> ORGANISM: Artificial Sequence 122 <220> FEATURE:
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for

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- 130 <211> LENGTH: 48
- 131 <212> TYPE: DNA
- 132 <213> ORGANISM: Artificial Sequence
- 134 <220> FEATURE:
- 135 <223> OTHER INFORMATION: large Nco1-Xbal vector fragment ligated to SEQ ID NO:10

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- 137 <400> SEQUENCE: 9
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- 141 <210> SEQ ID NO: 10

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214			1				5					10					
214	ctt	~++	_	++>	ant.	~~~	-	att	aat	aaa	caa		ttc	tet	att	agt	97
	Leu																3,
		vai	GIU	пец	дар	20	тар	VUL	Abii	Cly	25	כעם	1110	DCI	V 4 1	30	
218									+	~~~		att	200	a++	222		145
	gga																145
	Gly	Glu	GLY	GIu		Asp	Ата	Thr	Tyr		гла	ьeu	Thr	Leu		Pne	
222					35					40					45		100
	att																193
225	Ile	Cys	Thr		Gly	Lys	Leu	Pro		Pro	Trp	Pro	Thr		Val	Thr	
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237	Glu	Arq	Thr	Ile	Phe	Tyr	Lys	Asp	Asp	Gly	Asn	Tyr	Lys	Thr	Arg	Ala	
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	Glu																
242	-				115	1	•			120		_			125	-	
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	Gly																
246	U -1		1100	130	-1-			1	135			1		140	_		
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	Tyr																
250	- 7 -	71011	145	11011	501			150	-1-				155	1-		2	
	aat	aaa		aaa	att	aac	ttc		att	aga	cac	aac		aaa	gat.	gga	529
	Asn																
254	Maii	160	110	цуз	Val	non	165	Lys		**** 9		170		1	110 [1	
	agc		C22	++=	aca	asc.		tat	caa	caa	aat		cca	att	aac	gat	577
	Ser																.
	175	Val	GIII	шец	AIG	180	1115	-7-	0111	0111	185		110		U-1	190	
	ggc	aat	at a	a++	++-		a 2a	220	cat	tac		tcc	aca	caa	tet		625
	Gly																023
	GIY	PIO	vai	ьeu	195	PIO	Asp	ASII	птэ	200	пеи	Ser	1111	GIII	205	nia	
262		.					~~~		~~~		a aa	2+4	2± a	att		asa	673
	ctt																073
	Leu	ser	ьys	_	Pro	Asn	GIU	ьys		Asp	птв	Met	TIE		ьеи	Giu	
266				210			- 4-4-		215					220			721
	ttt																721
	Phe	Val		Ala	Ala	Gly	TTE		His	GIĀ	met	Asp		ьeu	Tyr	ьys	
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287	GIU	ьeu	Asp	20	Asp	vai	ASII	GIY	25	пуъ	FIIC	Ser	Val	30	Gry	Gra	
	Glv	Glu	Glv		Ala	Thr	Tvr	Glv		Leu	Thr	Leu	Lvs		Ile	Cvs	
291	CLY	Olu	35	1100	1114		- 1 -	40					45			-1-	
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	Thr	Ile	Phe		Lys	Asp	Asp	GLY		Tyr	Lys	Thr	Arg		GIu	val	
307	-	D1	~ 1	100	7	mla sa	T	77 <u>~</u> 7	105	7 ~~~	т1.	~1	T 011	110	C1.,	Tlo	
	гÀг	Pne		GIY	Asp	Thr	ьeu	120	ASII	Arg	TIE	Glu	125	пур	Gry	TIE	
311	7 cn	Dho	115	G] 11	λαη	Glv	Δen		T.e.11	Glv	His	Lys		Glu	Tvr	Asn	
315	Asp	130	цур	GIU	ASP	GLY	135	110	пси	GLY	1115	140	1100	014	-1-	11011	
	Tvr		Ser	His	Asn	Val		Ile	Met	Ala	Asp	Lys	Pro	Lys	Asn	Gly	
	145					150	- 4				155	-		•		160	
		Lys	Val	Asn	Phe	Lys	Ile	Arg	His	Asn	Ile	Lys	Asp	Gly	Ser	Val	
323					165					170					175		
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327				180					185					190			
330	Val	Leu		Pro	Asp	Asn	His		Leu	Ser	Thr	Gln		Ala	Leu	Ser	
331		_	195	_		_	_	200				_	205	~1	5 1	** - 7	
			Pro	Asn	GIu	Lys		Asp	His	Met	ше	Leu	ьeu	GIU	Pne	vaı	
335		210	77.	~1	T10	mb ~	215	C1.,	Mot	7 cm	Cl.	220 Leu	Тч	Lare			
	225	Ala	AIA	Gry	116	230	птъ	GIY	Mec	Asp	235	пец	- y -	пуз			
		0 > .51	EQ II	סער כ	. 17	250					200						
			ENGT!														
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			RGAN		Aeq	orea	a vio	ctor:	ia								
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354				Ser	Lys	Gly		Glu	Leu	Phe	Thr	Gly	Val	vai	Pro	iie	
355			1				5					10	++ a	+ aa	~++	agt	97
357	CLL	gtt	gaa	tta	gat	ggc	gat	gtt	Aat	999	Cla	aaa Lys	Dha	Cor	Wal	Ser	91
359		val	Giu	Leu	Asp	20	Asp	vai	Abii	Gry	25	пуъ	FIIC	Ser	Val	30	
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VERIFICATION SUMMARY

DATE: 03/08/2005 TIME: 10:36:34

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Input Set : A:\2005-01-02 4614-0140PUS1.ST25.txt

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